

## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims, in the application.

### **Listing of Claims**

Claim 1 (currently amended): A biosensor having

- (a) an electrode support;
- (b) an arrangement of electrodes disposed on the electrode support, the arrangement of electrodes comprising at least a working electrode and at least a second electrode;
- (c) a first conductive track leading from the working electrode to an electrical contact associated with the working electrode and a second conductive track leading from the second electrode to an electrical contact associated with the at least second electrode; and
- (d) at least one reagent incorporated in at least one of ~~the working electrode~~, the first conductive track leading from the working electrode to the electrical contact associated with the working electrode, or the electrical contact associated with the working electrode.

Claim 2 (original): The biosensor of claim 1, wherein the at least one reagent comprises at least one enzyme or at least one mediator or at least one co-enzyme or at least two of the enzyme, the mediator, or the co-enzyme.

Claim 3 (original): The biosensor of claim 2, wherein the mediator is selected from the group consisting of organometallic compounds, organic compounds, and coordination compounds with inorganic or organic ligands.

Claim 4 (original): The biosensor of claim 2, wherein the enzyme is selected from the group consisting of oxidases and dehydrogenases.

Claim 5 (original): The biosensor of claim 1, further including at least one reagent-containing layer overlying the conductive track leading from the working electrode.

Claim 6 (original): The biosensor of claim 1, the biosensor requiring a low volume of sample to trigger an electrochemical reaction.

Claim 7 (original): The biosensor of claim 1, wherein spacing between the working electrode and the at least second electrode does not exceed about 200 micrometers.

Claim 8 (original): The biosensor of claim 1, wherein the working electrode has an area of from about 0.5 mm<sup>2</sup> to about 5 mm<sup>2</sup>.

Claim 9 (original): The biosensor of claim 1, wherein the electrode arrangement further comprises a trigger electrode.

Claim 10 (original): The biosensor of claim 1, wherein the electrode arrangement further comprises a third electrode.

Claim 11 (original): The biosensor of claim 10, wherein the electrode arrangement further comprises a fourth electrode, said fourth electrode having the function of a trigger electrode.

Claim 12 (original): The biosensor of claim 1, further comprising an insulating layer overlying said electrode arrangement and said conductive tracks.

Claim 13 (original): The biosensor of claim 12, wherein a layer of mesh is interposed between the electrode arrangement and the insulating layer.

Claim 14 (original): The biosensor of claim 12, wherein a capillary is interposed between the electrode arrangement and the insulating layer.

Claim 15 (original): The biosensor of claim 1, further comprising a layer of tape overlying said electrode arrangement and said conductive tracks.

Claim 16 (currently amended): A biosensor having

- (a) a first substrate having two major surfaces;
- (b) a second substrate having two major surfaces;
- (c) a working electrode disposed on one major surface of the first substrate;
- (d) at least a second electrode disposed on one major surface of the second substrate;
- (e) a first conductive track leading from the working electrode to an electrical contact associated with the working electrode and a second conductive track leading from the second electrode to an electrical contact associated with the at least second electrode;
- (f) at least one reagent incorporated in at least one of ~~the working electrode~~, the first conductive track leading from the working electrode to the electrical contact associated with the working electrode, or the electrical contact associated with the working electrode;
- (g) an insulating layer disposed between said working electrode and said at least second electrode;
- (~~f~~) (h) the major surface bearing the working electrode facing the major surface bearing the at least second electrode.

Claim 17 (original): The biosensor of claim 16, wherein the at least one reagent comprises at least one enzyme or at least one mediator or at least one co-enzyme or at least two of the enzyme, the mediator, or the co-enzyme.

Claim 18 (original): The biosensor of claim 17, wherein the mediator is selected from the group consisting of organometallic compounds, organic compounds, and coordination compounds with inorganic or organic ligands.

Claim 19 (original): The biosensor of claim 17, wherein the enzyme is selected from the group consisting of oxidases and dehydrogenases.

Claim 20 (original): The biosensor of claim 16, further including at least one reagent-containing layer overlying the conductive track leading from the working electrode.

Claim 21 (original): The biosensor of claim 16, the biosensor requiring a low volume of sample to trigger an electrochemical reaction.

Claim 22 (original): The biosensor of claim 16, wherein spacing between the working electrode and the at least one other electrode does not exceed about 200 micrometers.

Claim 23 (original): The biosensor of claim 16, wherein the working electrode has an area of from about 0.5 mm<sup>2</sup> to about 5 mm<sup>2</sup>.

Claim 24 (original): The biosensor of claim 16, wherein the electrode arrangement further comprises a trigger electrode.

Claim 25 (original): The biosensor of claim 16, wherein the electrode arrangement further comprises a third electrode.

Claim 26 (original): The biosensor of claim 25, wherein the electrode arrangement further comprises a fourth electrode, said fourth electrode having the function of a trigger electrode.

Claim 27 (original): The biosensor of claim 16, wherein a layer of mesh is interposed between the working electrode and the insulating layer.

Claim 28 (original): The biosensor of claim 16, wherein a capillary is interposed between the working electrode and the insulating layer.